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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/664,646
	Filing Date	September 19, 2003
	First Named Inventor	
	Art Unit	3737
	Examiner Name	Kressman, et al.
Total Number of Pages in This Submission	Attorney Docket Number	5074A-000009/DVC

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <div>Remarks</div>	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Twenty-two (22) page Form 1449 26 Foreign Patent Documents 56 Other Documents Return Postcard

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm or Individual name	Harness, Dickey & Pierce, P.L.C.	Attorney Name Richard W. Warner	Reg. No. 38,043
Signature			
Date	July 6, 2004		

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Richard W. Warner	Express Mail Label No.	EV 533 147 325 US
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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/664,646
Filing Date: September 19, 2003
Applicant: Kressman, et al.
Group Art Unit: 3737
Examiner:
Title: METHOD OF DETECTING ORGAN
MATTER SHIFT IN A PATIENT
Attorney Docket: 5074A-000009/DVC

Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. **LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION**

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. **COPIES**

A. ☒ Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. ☐ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C. ☐ Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

D. ☐ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form 1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g).)

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. ☒ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. ☒ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. ☐ See the attached foreign patent office communication from a counterpart foreign application:

2. ☐ English translations are provided:

3. ☒ Other:

Japanese Reference JP 2765738 appears to disclose a catheter that may be positioned relative to a selected site to produce a signal to create a data set.

German Reference DE 3042343 appears to disclose a system operable to receive a signal regarding a point in space.

European Reference EP 0 581 704 has a U.S. equivalent of U.S. Patent No. 5,447,154.

European Reference EP 0419729 has a U.S. equivalent of U.S. Patent No. 5,042,486.

France Reference No. 2417970 has a U.S. equivalent of U.S. Patent No. 4,418,422.

German Reference DE 3831278 has U.S. equivalent of U.S. Patent No. 4,923,459.

German Reference DE 4233978 has U.S. equivalent of U.S. Patent No. 5,394,457.

German Reference No. DE 10085137 has a U.S. equivalent of U.S. Patent No. 6,499,488.

An English abstract is provided for Other Document reference No. 11.

An English language abstract is provided for Other Document reference No. 35.

An English language abstract is provided for Other Documents reference No. 39.

Other Documents reference No. 45, by Sautot, entitled "Vissage Pediculaire Assiste Par Ordinateur" appears to disclose a fluoroscopic image guidance and system.

Other Documents reference No. 52 by Watanabe et al., an English translation is provided.

C. ☐ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. ☐ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does (do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.

Filing Date

Art Unit

V. THIS IDS IS BEING FILED UNDER

A. ☒ **37 C.F.R. § 1.97(b):** (check only one box)

1. ☐ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
2. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
3. ☒ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
4. ☐ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ☐ **37 C.F.R. § 1.97(c):** (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
2. ☐ See the certification below. No fee is required.

C. ☐ 37 C.F.R. § 1.97(d):

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ☐ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

A. ☐ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or

B. ☐ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. ☐ some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 C.F.R. 1.704(d)

The undersigned hereby states that:

☐ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VI. PAYMENT OF FEES (check only one box)

A. ☐ A check in the amount of \$180.00 is enclosed for the above identified fee.

B. ☐ Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

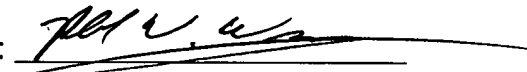
The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

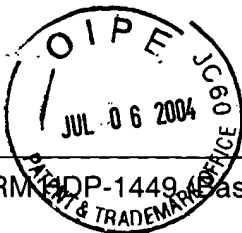
Respectfully submitted,

Dated: July 6 2004

By: 
Richard W. Warner
Reg. No. 38,043

Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1600

RWW/MLT/cn



FORM PDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Sheet 1 of 21

ATTORNEY DOCKET NO.

SERIAL NO.

5074A-000009 DVC

10/664,646

APPLICANT

Kessman, et al

FILING DATE

GROUP

September 19, 2003

3737

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		Re. 35,025	8/1995	Anderton		
2.		1,576,781	03/1926	Phillips		
3.		1,735,726	11/1929	Bornhardt		
4.		2,407,845	09/1946	Nemeyer		
5.		2,650,588	09/1953	Drew		
6.		2,697,433	12/1954	Sehnder		
7.		3,016,899	01/1962	Stenvall		
8.		3,017,887	01/1962	Heyer		
9.		3,061,936	11/1962	Dobbeleer		
10.		3,073,310	01/1963	Mocarski		
11.		3,294,083	12/1966	Alderson		
12.		3,367,326	02/1968	Frazier		
13.		3,439,256	04/15/1969	Kähne et al.		
14.		3,577,160	05/1971	White		
15.		3,674,014	07/04/1972	Tillander		
16.		3,702,935	11/1972	Carey et al.		
17.		3,704,707	12/1972	Halloran		
18.		3,868,565	02/25/1975	Kuipers		
19.		3,941,127	03/1976	Froning		
20.		4,037,592	07/1977	Kronner		
21.		4,052,620	10/1977	Brunnett		

Examiner:

Date Considered:

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 2 of 21	ATTORNEY DOCKET NO.	SERIAL NO.
	5074A-000009 DVC	10/664,646
	APPLICANT	
	Kessman, et al	
	FILING DATE	GROUP
	September 19, 2003	3737

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
22.		4,054,881	10/18/1977	Raab		
23.		4,117,337	09/26/1978	Staats		
24.		4,173,228	11/06/1979	Van Steenwyk et al.		
25.		4,202,349	05/1980	Jones		
26.		4,262,306	04/14/1981	Renner		
27.		4,287,809	09/08/1981	Egli et al.		
28.		4,314,251	02/02/1982	Raab		
29.		4,317,078	02/23/1982	Weed et al.		
30.		4,328,813	05/1982	Ray		
31.		4,339,953	07/20/1982	Iwasaki		
32.		4,358,856	11/09/1982	Stivender et al.		
33.		4,368,536	01/1983	Pfeiler		
34.		4,396,885	08/02/1983	Constant		
35.		4,403,321	09/1983	DiMarco		
36.		4,418,422	11/1983	Richter et al.		
37.		4,422,041	12/20/1983	Lienau		
38.		4,431,005	02/14/1984	McCormick		
39.		4,485,815	12/1984	Amplatz		
40.		4,543,959	10/01/1985	Sepponen		
41.		4,548,208	10/22/1985	Niemi		

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 3 of 21	ATTORNEY DOCKET NO.	SERIAL NO.
	5074A-000009 DVC	10/664,646
	APPLICANT	
	Kessman, et al	
	FILING DATE	GROUP
	September 19, 2003	3737

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
42.		4,572,198	02/25/1986	Codrington		
43.		4,584,577	04/22/1986	Temple		
44.		4,613,866	09/23/1986	Blood		
45.		4,618,978	10/21/1986	Cosman		
46.		4,621,628	11/1986	Bludermann		
47.		4,625,718	12/1986	Olerud et al.		
48.		4,642,786	02/10/1987	Hansen		
49.		4,645,343	02/1987	Stockdale et al.		
50.		4,649,504	03/10/1987	Krouglicof et al.		
51.		4,651,732	03/24/1987	Frederick		
52.		4,653,509	03/1987	Oloff et al.		
53.		4,673,352	06/1987	Hansen		
54.		4,706,665	11/17/1987	Gouda		
55.		4,719,419	01/12/1988	Dawley		
56.		4,722,336	02/1988	Kim et al.		
57.		4,727,565	02/23/1988	Ericson		
58.		4,737,794	04/12/1988	Jones		
59.		4,737,921	04/12/1988	Goldwasser et al.		
60.		4,750,487	06/1988	Zanetti		
61.		4,771,787	09/20/1988	Wurster et al.		

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 4 of 21	ATTORNEY DOCKET NO.	SERIAL NO.
	5074A-000009 DVC	10/664,646
	APPLICANT	
	Kessman, et al	
	FILING DATE	GROUP
	September 19, 2003	3737

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
62.		4,793,355	12/1988	Crum et al.		
63.		4,797,907	01/1989	Anderton		
64.		4,803,976	02/1989	Frigg et al.		
65.		4,821,206	04/11/1989	Arora		
66.		4,836,778	06/06/1989	Baumrind et al.		
67.		4,845,771	07/1989	Wislocki et al.		
68.		4,849,692	07/18/1989	Blood		
69.		4,862,893	09/05/1989	Martinelli		
70.		4,889,526	12/26/1989	Rauscher et al.		
71.		4,905,698	03/06/1990	Strohl, Jr. et al.		
72.		4,923,459	05/1990	Nambu		
73.		4,931,056	06/1990	Ghajar et al.		
74.		4,945,305	07/31/1990	Blood		
75.		4,951,653	08/1990	Fry et al.		
76.		4,977,655	12/18/1990	Martinelli		
77.		4,989,608	02/05/1991	Ratner		
78.		5,002,058	03/26/1991	Martinelli		
79.		5,005,592	04/09/1991	Cartmell		
80.		5,013,317	05/1991	Cole et al.		
81.		5,016,639	05/21/1991	Allen		

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 5 of 21	ATTORNEY DOCKET NO.	SERIAL NO.
	5074A-000009 DVC	10/664,646
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	FILING DATE	GROUP
	September 19, 2003	3737

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
82.		5,027,818	07/02/1991	Bova et al.		
83.		5,030,196	07/09/1991	Inoue		
84.		5,030,222	07/1991	Calandruccio et al.		
85.		5,031,203	07/1991	Trecha		
86.		5,042,486	08/27/1991	Pfeiler et al.		
87.		5,050,608	09/24/1991	Watanabe et al.		
88.		5,057,095	10/15/1991	Fabian		
89.		5,059,789	10/22/1991	Salcudean		
90.		5,079,699	01/07/1992	Tuy et al.		
91.		5,086,401	02/04/1992	Glassman et al.		
92.		5,099,845	03/31/1992	Besz et al.		
93.		5,105,829	04/21/1992	Fabian et al.		
94.		5,107,839	04/28/1992	Houdek et al.		
95.		5,107,843	04/1992	Aarnio, et al.		
96.		5,107,862	04/28/1992	Fabian et al		
97.		5,109,194	04/28/1992	Cantaloube		
98.		5,152,288	10/06/1992	Hoenig et al.		
99.		5,178,621	01/1993	Cook et al.		
100.		5,187,475	02/16/1993	Wagener et al.		
101.		5,188,126	02/23/1993	Fabian et al		

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 6 of 21	ATTORNEY DOCKET NO.	SERIAL NO.
	5074A-000009 DVC	10/664,646
	APPLICANT	
	Kessman, et al	
	FILING DATE	GROUP
	September 19, 2003	3737

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
102.		5,190,059	03/02/1993	Fabian et al		
103.		5,197,476	03/30/1993	Nowacki et al.		
104.		5,197,965	03/1993	Cherry et al.		
105.		5,198,768	03/30/1993	Keren		
106.		5,211,165	05/18/1993	Dumoulin et al.		
107.		5,211,176	05/1993	Ishiguro et al.		
108.		5,212,720	05/1993	Landi et al.		
109.		5,214,615	05/25/1993	Bauer		
110.		5,219,351	06/1993	Teubner et al.		
111.		5,228,442	07/20/1993	Imran		
112.		5,233,990	08/1993	Barnea		
113.		5,237,996	08/24/1993	Waldman et al.		
114.		5,257,636	11/02/1993	White		
115.		5,265,611	11/30/1993	Hoenig et al.		
116.		5,269,759	12/14/1993	Hernandez et al.		
117.		5,273,025	12/28/1993	Sakiyama et al.		
118.		5,274,551	12/28/1993	Corby, Jr.		
119.		5,291,199	03/01/1994	Overman et al		
120.		5,297,549	03/29/1994	Beatty et al.		
121.		5,305,091	04/1994	Gelbart et al.		

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	FILING DATE	GROUP
	September 19, 2003	3737

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
122.		5,315,630	05/24/1994	Sturm et al.		
123.		5,316,024	05/31/1994	Hirschi et al.		
124.		5,318,025	06/07/1994	Dumoulin et al.		
125.		5,320,111	06/1994	Livingston		
126.		5,325,728	07/05/1994	Zimmerman et al.		
127.		5,325,873	07/05/1994	Hirschi et al.		
128.		5,329,944	07/19/1994	Fabian et al		
129.		5,333,168	07/1994	Fernandes et al.		
130.		5,353,795	10/11/1994	Souza et al.		
131.		5,353,800	10/11/1994	Pohndorf et al		
132.		5,353,807	10/11/1994	DeMarco		
133.		5,368,030	11/29/1994	Zinreich et al.		
134.		5,375,596	12/27/1994	Twiss et al.		
135.		5,385,146	01/31/1995	Goldreyer		
136.		5,385,148	01/31/1995	Lesh et al.		
137.		5,386,828	02/07/1995	Owens et al.		
138.		5,389,101	02/1995	Heilbrun et al.		
139.		5,394,457	02/1995	Leibinger et al.		
140.		5,399,146	03/21/1995	Nowacki et al.		
141.		5,400,384	03/1995	Fernandes et al.		

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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
142.		5,408,409	04/1995	Glassman et al.		
143.		5,417,210	05/23/1995	Funda et al.		
144.		5,419,325	05/30/1995	Dumoulin et al.		
145.		5,425,367	06/20/1995	Shapiro et al.		
146.		5,425,382	06/20/1995	Golden et al.		
147.		5,426,683	06/1995	O'Farrell, Jr., et al.		
148.		5,426,687	06/1995	Goodall et al.		
149.		5,427,097	06/1995	Depp		
150.		5,429,132	07/04/1995	Guy et al.		
151.		5,433,198	07/18/1995	Desai		
152.		5,437,277	08/01/1995	Dumoulin et al.		
153.		5,443,066	08/22/1995	Dumoulin et al.		
154.		5,444,756	08/1995	Pai et al.		
155.		5,445,144	08/29/1995	Wodicka et al.		
156.		5,445,150	08/29/1995	Dumoulin et al.		
157.		5,445,166	08/29/1995	Taylor		
158.		5,448,610	09/1995	Yamamoto et al.		
159.		5,453,686	09/26/1995	Anderson		
160.		5,456,718	10/10/1995	Szymaitis		
161.		5,458,718	10/17/1995	Venkitachalam		

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U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
162.		5,464,446	11/1995	Dreessen et al.		
163.		5,478,341	12/1995	Cook et al.		
164.		5,478,343	12/1995	Ritter		
165.		5,485,849	01/23/1996	Panescu et al.		
166.		5,487,391	01/30/1996	Panescu		
167.		5,487,729	01/30/1996	Avellanet et al.		
168.		5,487,757	01/30/1996	Truckai et al.		
169.		5,490,196	02/06/1996	Rudich et al.		
170.		5,503,416	04/1996	Aoki et al.		
171.		5,513,637	05/07/1996	Twiss et al.		
172.		5,542,938	08/06/1996	Avellanet et al.		
173.		5,543,951	08/06/1996	Moehrmann		
174.		5,546,940	08/20/1996	Panescu et al.		
175.		5,546,949	08/20/1996	Frazin et al.		
176.		5,551,429	09/1996	Fitzpatrick et al.		
177.		5,573,533	11/12/1996	Strul		
178.		5,575,794	11/1996	Walus et al.		
179.		5,583,909	12/1996	Hanover		
180.		5,588,430	12/31/1996	Bova et al.		
181.		5,595,193	01/1997	Walus et al.		

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U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
182.		5,596,228	01/1997	Anderton et al.		
183.		5,600,330	02/04/1997	Blood		
184.		5,617,462	04/1997	Spratt		
185.		5,617,857	04/08/1997	Chader et al.		
186.		5,619,261	04/1997	Anderton		
187.		5,622,169	04/22/1997	Golden et al.		
188.		5,627,873	05/1997	Hanover et al.		
189.		5,628,315	05/13/1997	Vilsmeier et al.		
190.		5,630,431	05/20/1997	Taylor		
191.		5,636,644	06/10/1997	Hart et al		
192.		5,640,170	06/17/1997	Anderson		
193.		5,642,395	06/1997	Anderton et al.		
194.		5,643,268	07/01/1997	Vilsmeier et al.		
195.		5,645,065	07/08/1997	Shapiro et al.		
196.		5,647,361	07/15/1997	Damadian		
197.		5,664,001	09/1997	Tachibana et al.		
198.		5,674,296	10/07/1997	Bryan et al.		
199.		5,681,260	10/28/1997	Ueda et al		
200.		5,682,886	11/04/1997	Delp et al.		
201.		5,690,108	11/1997	Chakeres		

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U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
202.		5,695,500	12/09/1997	Taylor et al.		
203.		5,702,406	12/30/1997	Vilsmeier et al.		
204.		5,711,299	01/27/1998	Manwaring et al.		
205.		5,713,946	02/03/1998	Ben-Haim		
206.		5,715,836	02/10/1998	Kliegis et al.		
207.		5,727,552	03/17/1998	Ryan		
208.		5,727,553	03/1998	Saad		
209.		5,730,130	03/1998	Fitzpatrick et al.		
210.		5,735,278	04/07/1998	Hoult et al.		
211.		5,741,214	04/21/1998	Ouchi et al.		
212.		5,742,394	04/1998	Hansen		
213.		5,744,953	04/28/1998	Hansen		
214.		5,749,362	05/12/1998	Funda et al.		
215.		5,749,835	05/12/1998	Glantz		
216.		5,755,725	05/26/1998	Druais		
217.		5,758,667	06/02/1998	Slettenmark		
218.		5,767,699	06/16/1998	Hansen et al.		
219.		5,769,789	06/23/1998	Wang et al.		
220.		5,775,322	07/07/1998	Silverstein et al		
221.		5,782,765	07/21/1998	Jonkman		

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U.S. PATENT DOCUMENTS						
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222.		5,792,055	08/11/1998	McKinnon		
223.		5,795,294	08/18/1998	Luber et al.		
224.		5,799,055	08/1998	Peshkin et al.		
225.		5,799,099	08/1998	Wang et al.		
226.		5,800,352	09/01/1998	Ferre et al.		
227.		5,800,535	09/01/1998	Howard, III		
228.		5,802,719	09/1998	O'Farrell, Jr., et al.		
229.		5,803,089	09/08/1998	Ferre et al.		
230.		5,807,252	9/15/1998	Hassfeld et al.		
231.		5,810,728	09/22/1998	Kuhn		
232.		5,810,735	09/22/1998	Halperin et al		
233.		5,823,192	10/1998	Kalend et al.		
234.		5,823,958	10/20/1998	Truppe		
235.		5,828,725	10/27/1998	Levinson		
236.		5,831,260	11/03/1998	Hansen		
237.		5,834,759	11/10/1998	Glossop		
238.		5,840,024	11/24/1998	Taniguchi et al.		
239.		5,843,076	12/1/1998	Webster, Jr. et al.		
240.		5,865,846	02/02/1999	Bryan et al.		
241.		5,868,674	02/09/1999	Glowinski et al.		

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U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
242.		5,868,675	02/09/1999	Henrion et al.		
243.		5,871,487	02/16/1999	Warner et al.		
244.		5,884,410	03/1999	Prinz		
245.		5,891,157	04/06/1999	Day et al.		
246.		5,904,691	05/18/1999	Barnett et al.		
247.		5,923,727	07/1999	Navab		
248.		5,928,248	7/27/1999	Acker		
249.		5,938,603	8/17/1999	Ponzi		
250.		5,938,694	08/17/1999	Jaraczewski et al.		
251.		5,950,629	09/14/1999	Taylor et al.		
252.		5,951,475	09/14/1999	Gueziec et al.		
253.		5,954,647	09/21/1999	Bova et al.		
254.		5,954,796	10/12/1999	Imran		
255.		5,967,980	10/19/1999	Ferre et al.		
256.		5,968,047	10/10/1999	Reed		
257.		5,976,156	11/02/1999	Taylor et al.		
258.		5,983,126	11/09/1999	Wittkampf		
259.		5,987,960	11/1999	Messner et al.		
260.		5,999,837	12/1999	Messner et al.		
261.		5,999,840	12/1999	Grimson et al.		

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U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
262.		6,001,130	12/14/1999	Bryan et al.		
263.		6,006,126	12/1999	Cosman		
264.		6,024,695	02/15/2000	Greenberg et al.		
265.		6,050,724	04/2000	Schmitz et al.		
266.		6,059,718	05/2000	Taniguchi et al.		
267.		6,063,022	5/16/2000	Ben-Haim		
268.		6,073,043	06/2000	Schneider		
269.		6,104,944	08/15/2000	Martinelli		
270.		6,118,845	09/12/2000	Simon et al.		
271.		6,122,538	09/19/2000	Sliwa, Jr. et al.		
272.		6,131,396	10/17/2000	Duerr et al.		
273.		6,139,183	10/2000	Graumann		
274.		6,149,592	11/2000	Yanof et al.		
275.		6,156,067	12/05/2000	Bryan et al.		
276.		6,161,032	12/12/2000	Acker		
277.		6,167,296	12/2000	Shahidi		
278.		6,172,499	01/09/2001	Ashe		
279.		6,175,756	1/16/2001	Ferre et al.		
280.		6,223,067	04/24/2001	Vilsmeier		
281.		6,233,476	3/2001	Strommer et al.		

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U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
282.		6,246,231	06/12/2001	Ashe		
283.		6,273,896	08/14/2001	Franck et al.		
284.		6,298,262	10/02/2001	Franck et al.		
285.		6,332,089	12/2001	Acker et al.		
286.		6,341,231	1/22/2002	Ferre et al.		
287.		6,351,659	02/26/2002	Vilsmeier		
288.		6,381,485	04/30/2002	Hunter et al.		
289.		6,424,856	07/23/2002	Vilsmeier et al.		
290.		6,428,547	08/06/2002	Vilsmeier et al.		
291.		6,434,415	08/13/2002	Foley et al.		
292.		6,437,567	08/20/2002	Schenck et al.		
293.		6,445,943	9/3/2002	Ferre et al.		
294.		6,470,207	10/22/2002	Simon et al.		
295.		6,474,341	11/05/2002	Hunter et al.		
296.		6,493,573	12/10/2002	Martinelli et al.		
297.		6,498,944	12/24/2002	Ben-Haim et al		
298.		6,499,488	12/31/2002	Hunter et al.		
299.		6,527,443	03/04/2003	Vilsmeier et al.		
300.		6,551,325	04/22/2003	Neubauer et al.		
301.		6,584,174	06/24/2003	Schubert et al.		

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U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
302.		6,609,022	08/19/2003	Vilsmeier et al.		
303.		6,611,700	08/26/2003	Vilsmeier et al.		
304.		6,640,128	10/28/2003	Vilsmeier et al.		
305.		6,694,162	02/17/2004	Hartlep		
306.		6,701,179	03/02/2004	Martinelli et al.		

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes No	
1.		WO 01/30437 A1	05/03/2001	WIPO			
2.		WO 98/38908	09/11/1998	PCT			
3.		WO 94/24933	11/10/1994	PCT			
4.		WO 94/23647	10/27/1994	PCT			
5.		WO 96/11624	04/25/1996	PCT			
6.		WO 88/09151	12/01/1988	PCT		Abstrac t	
7.		WO 98/08554	03/1998	WIPO			
8.		WO 91/07726	05/30/1991	PCT			
9.		WO 92/06645	04/30/1992	PCT			
10.		WO 89/05123	06/1989	PCT			
11.		WO 94/04938	03/03/1994	PCT			

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FOREIGN PATENT DOCUMENTS								
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes No		
12.		WO 91/04711	04/18/1991	PCT		Abstrac	t	
13.		WO 91/03982	04/1991	WIPO				
14.		WO 92/03090	03/05/1992	PCT				
15.		EP 0 319 844 A1	01/1988	EPO				
16.		EP 0 581 704 B1	07/27/1993	EPO		U.S. Equiv		
17.		EP 0 651 968 A1	08/1990	EPO				
18.		0350996 A1	01/1990	EPO				
19.		EP 0419729 A1	09/29/1989	EPO		U.S. Equiv		
20.		964149	03/1975	Canada				
21.		2417970	02/20/1979	France		U.S. Equiv		
22.		JP 2765738		Japan				X
23.		DE 3042343 A1	06/1982	Germany				X
24.		DE 3831278 A1	03/1989	Germany		U.S. Equiv		
25.		DE 4233978 C1	04/1994	Germany		U.S. Equiv		
26.		DE 10085137		Germany		U.S. Equiv		

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
1.		"Prestige Cervical Disc System Surgical Technique", 12 pgs.
2.		Adams et al., "Orientation Aid for Head and Neck Surgeons," Innov. Tech. Biol. Med., Vol. 13, No. 4, 1992, pp. 409-424.
3.		Barrick et al., "Prophylactic Intramedullary Fixation of the Tibia for Stress Fracture in a Professional Athlete," Journal of Orthopaedic Trauma, Vol. 6, No. 2, pp. 241-244 (1992).
4.		Barrick et al., "Technical Difficulties with the Brooker-Wills Nail in Acute Fractures of the Femur," Journal of Orthopaedic Trauma, Vol. 6, No. 2, pp. 144-150 (1990).
5.		Barrick, "Distal Locking Screw Insertion Using a Cannulated Drill Bit: Technical Note," Journal of Orthopaedic Trauma, Vol. 7, No. 3, 1993, pp. 248-251.
6.		Batnitzky et al., "Three-Dimensional Computer Reconstructions of Brain Lesions from Surface Contours Provided by Computed Tomography: A Prospectus," Neurosurgery, Vol. 11, No. 1, Part 1, 1982, pp. 73-84.
7.		Bouazza-Marouf et al., "Robotic-Assisted Internal Fixation of Femoral Fractures", IMECHE., pp. 51-58 (1995)
8.		Brack et al., "Accurate X-ray Based Navigation in Computer-Assisted Orthopedic Surgery," CAR '98, pp. 716-722.
9.		Bryan, "Bryan Cervical Disc System Single Level Surgical Technique", Spinal Dynamics, 2002, pp. 1-33.
10.		Champleboux et al., "Accurate Calibration of Cameras and Range Imaging Sensors: the NPBS Method," IEEE International Conference on Robotics and Automation, Nice, France, May, 1992.
11.		Champleboux, "Utilisation de Fonctions Splines pour la Mise au Point D'un Capteur Tridimensionnel sans Contact," Quelques Applications Medicales, July 1991.
12.		Cinquin et al., "Computer Assisted Medical Interventions," IEEE Engineering in Medicine and Biology, May/June 1995, pp. 254-263.
13.		Cinquin et al., "Computer Assisted Medical Interventions," International Advanced Robotics Programme, September 1989, pp. 63-65.
14.		Feldmar et al., "3D-2D Projective Registration of Free-Form Curves and Surfaces," Rapport de recherche (Inria Sophia Antipolis), 1994, pages 1-44.
15.		Foley et al., "Fundamentals of Interactive Computer Graphics," The Systems Programming Series, Chapter 7, July 1984, pp. 245-266.

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